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av		3,617,439	Nov. 2/71	Chapman, Jr.	1			
in		4,022,861	May 10/77	Levesque				
in		4,668,292	May 26/87	Koperdak				
ar	/	4,734,393	Mar. 29/88	Lowe et al.				
au	,	4,931,139	June 5/90	Phillips			-	
Û	į	4,975,108	Dec. 4/90	Pruitt R	EGEN	VED_		
w	,	5,358,607	Oct. 25/94	Ellis	PR 1 4	2004		
W		5,599,550	Feb. 4/97	Kohlruss et al. JECHN	TECHNOLOGY CENTER R3700			
En		5,679,129	Oct. 21/97	Hon				
n)	5,807,465	Sept. 15/98	Knapick et al.				
w		3,536,615	Oct. 27/70	Bunn		,		
				FOREIGN PATENT DOCUMENTS		-		
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation YES NO	
cu)		WO 98/07804	Feb. 26/98	PCT		1		
ai	/	DE 195 03 247 A1	Aug. 8/96	Germany				
'n	/	131,472	Aug. 28/19	GB				
m	/	609,069	Sept. 24/48	GB				
in		2 601 381	Jan. 15/88	France				
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		1	TECHNOLOGY GENTER R370			
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		FORI	EIGN PATENT DOCUMENTS			
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-Mayt	1,555,995	Jan. 21/69	France NO franska	A1DV		
in	970,708	Jan. 8/51	France			
au	DE 30 08 644 A1	Oct. 9/81	Germany			
w	1,164,434	Nov. 25/80	Canada	k		
	OTHER DOCUM	MENTS (Includio	ng Author, Title, Date, Pertinent I	Pages, Etc.)		
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